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			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary	Application No. 10/809,312	Applicant(s) GREENE ET AL.	
	Examiner ROBERT M. KELLY	Art Unit 1633	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 January 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11, 14-17, 19 and 32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11, 14-17, 19, 32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>1/9/08</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Applicant's amendment and response of 1/9/08 has been entered

Claims 14 and 32 have been amended.

Claims 12, 13, and 18 have been cancelled.

Claims 1-11, 14-17, 19, and 32 are presently pending.

Notice: Examiner Reassignment

This Application has been reassigned to Examiner Robert M. Kelly, of Art Unit 1632.

The information regarding the Examiner and his SPE are located at the end of this action. Please take note of such when preparing future responses in this Application.

Election/Restriction

It is noted that Applicant's claims are presently considered with regard to the elected invention of 2/21/06 and the species election of dominant negative inhibitor of ATF5 in the election of 5/24/07.

Claim Status, Cancelled Claims

In light of the cancellation of Claims 12, 13, and 18, all rejections and/or objections to such claims are withdrawn.

Claim Rejections - 35 USC § 112 - clarity

The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

In light of the amendment to Claim 32, the rejection of such claim under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, is withdrawn.

To wit, the claim has been amended to place both the ATF5 encoded sequence on the same single nucleic acid as the sequence encoding the fluorescent protein.

Claim Rejections - 35 USC § 112 – written description

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-4, 6-11, and 14-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claims, as demonstrated by dependent claim 5, specifically imply that generas of inhibitors are broader than the antibodies, antisense RNAs and dominant negative inhibitors. Such includes, according to the specification, NGF and other proteins, small molecules, and antibodiotics, which inhibit, either directly or indirectly, the activity, expression, or degradation of the ATF5 protein.

However, no small molecule and no antibiotic is described in the specification or the art, which small molecule or antibiotic specifically, either directly or indirectly, inhibits the activity, expression or degradation of such ATF5.

Hence, the Artisan would not have understood Applicant to have been in possession of these specifically implied compounds.

Claim Rejections - 35 USC § 112—new matter

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 32 remains rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement, for reasons of record, as comprising new matter. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

To wit, the substance of the rejection is that Applicant's original specification and claims only provides a demonstration of possession of eGFP as a fluorescent protein (e.g., paragraph 0014 of the Application Publication 2005/0164384 and original claims), however, present claim 32 contains the previously-amended language of encoding any fluorescent protein. Such necessarily obtains support from the specification which is one of obviousness, i.e., it would be obvious to use any protein which is fluorescent. However, as has been long made clear by the

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courts, obviousness-type support does not provide the proper demonstration of possession under the new matter type of written description rejection.

Response to Argument – New Matter, fluorescent protein

Applicant's argument of 1/9/08 has been fully considered but is not found persuasive.

Applicant argues that the field is well established such that the Artisan would understand any fluorescent protein could be utilized, and hence, a single embodiment is enough to demonstrate possession of the genera, under written description case law (pp. 7-8).

Such is not persuasive. As has been made abundantly clear in the record, Applicant is not being rejected under the general written description requirement, but instead under the new matter type of written description. While a single embodiment in this case may show possession of the genera in an original claim, or in original description, the amended claims are required to have been possessed at the time of filing, which requires more than simple obviousness-type possession. This is well known to be in place so that Applicant cannot just carve around the Art as needed to obtain a claim, but instead to actually claim an invention commensurate with their contribution to the Art as they contemplated it at the time of invention.

The following enablement rejection has been rewritten into a single rejection, as the prior Examiner wrote the enablement in two sections, however, only a single enablement scope rejection is required. In addition the Examiner has supplied more art to support the Arguments made.

Claim Rejections - 35 USC § 112 - enablement

The following is a quotation of the first paragraph of 35 U.S.C. 112:

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The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 6, 8-11, 15, 17, and 19 remain, and Claims 1-5, 7, 14, and 16 are newly rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for methods of inducing the differentiation of neural stem/progenitor cells *in vitro*, does not reasonably provide enablement for *in vivo* methods, or transplantation of the differentiated cells, and the breadth of inhibitors encompassed. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

The claims encompass methods of inducing/promoting the differentiation of neural stem/progenitor cells, by inhibiting ATF5 to reduce an activity of ATF5, and thereby promote differentiation. Such may be *in vivo* or *in vitro*, and the *in vitro* subsequently-differentiated cells may be transplanted into a subject, which may be human, an embryo, or into a subject with nervous tissue degeneration. Dependent claims encompass additional contact with neurotrophic factors, specific differentiated cell types, GFP expression in the differentiated cell, and specific ATF5 inhibitors. Further, specific claims are drawn to similar methods under the preamble of treating nervous tissue degeneration.

Moreover, the methods for inducing differentiation *in vivo* and transplanting *in vitro* differentiated cells (herein discussed as “*ex vivo*” methods) are taught to be for the purpose of treating nervous tissue degeneration (e.g., p. 25, paragraph 0074, *et seq.*). Hence, these methods must be enabled for such therapies. Still further, the inhibitors of ATF5 are taught by the

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specification to encompass proteins, DNA, RNA, antisense, antibodies, antibiotics, drugs, etc., which can work directly or indirectly (e.g., p. 17, paragraph 0050, *et seq.*).

These claims are broad for the methods of *in vivo* differentiation and *ex vivo* therapies, as the breadth of inhibitors of ATF5 which decrease the activity of ATF5, as well as the breadth of administration methods encompassed.

The field of stem cell therapy for treating neurodegenerative diseases is not very well fleshed out such that the Artisan could reasonably predict that any particular disorder could be treated, and further for any individual with the disorder. Pluchino, et al. (2005) Brain Research Reviews, 48: 211-19 teaches that the science is still in its infancy, with multiple art-recognized problems that must be overcome before applying widespread therapeutic applications of neural stem cell compositions to humans with neurodegenerative disease/injury (e.g., p. 215, conclusion). The factors involved in the efficacy of such transplantation methods are not well understood.

In addition, Stanworth, et al. (2001) Clinical Medicine, 1(5): 378-82 teaches there are multiple issues impeding the widespread use of the combination of gene therapy and stem cells, including lack of efficiency of gene transfer and vector design as well as regulatory issues (e.g., p. 381, col. 1, paragraph 3). Thomas, et al. (2003) Nature Reviews Genetics, 4: 346-58 teach that multiple hurdles must be overcome for viral vector administration, including potential immune response, limited understanding of integration potential into oncogenes, and the ability of animal studies to predict response in humans. Thomas discloses that the human response to viral based therapies are more variable than those observed in animal models and therefore, it is difficult to make solid predictions based on non-human trials (e.g., p. 356, col. 1, paragraph 2).

Further, Thomas teaches that the predictability of individual response to inflammatory vectors remains a "substantial challenge" (e.g., Id.).

Further, stem cell therapy for neurodegenerative disease and trauma is not reasonably predictable. The lack of predictability is found in the areas of: efficacy of stem cell delivery to the area of degeneration, persistence in the disease area and proliferation control. Pluchino notes that while totipotent ES cells have been used in transplants, there is no consistent data on the use of ES cell derived, lineage restricted, neural cells (e.g., p. 213, paragraph 3). Further, Pluchino teaches that recent ES cell transplant studies have resulted in formation of heterologous tissue and teratomas at the site of administration (e.g., Id., paragraph 4). Further ES cell related issues include optimal sources of cells for transplant, optimal administration methods for the cells, and determination of differentiation state and persistence of the transplanted cells in the area to be treated (e.g., Id., p. 212, col. 1, last paragraph). Still further, it is not reasonably predictable that the properties of transplanted neural cells would remain after transplantation as *in vivo* animal models in which even adult differentiated cells displayed altered pathways of differentiation when they are transplanted into diseased animals versus healthy animals (e.g., pp. 213-14, paragraph bridging). Efficacy of such stem cell pharmaceuticals is not reasonably predictable due to possible migration or dispersion of the stem cells to or from the degenerated area, especially in some diseases like Alzheimer's (e.g., Id.). In addition, any neural stem cells that are transplanted into a patient would be under the influence of a myriad of growth factors, hormones, and other molecules that would influence their differentiation fate and efficacy of treatment in any individual case (e.g., p. 214, last paragraph). Further, Gerlach, et al. (2002) *Journal of Neurology*, 249(Suppl. 3): III/33-35 cites multiple problems related to stem cell therapies

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including variation in therapeutic effect, side effects and the difficulty in using fetal or stem cell tissue (e.g., p. 34, col. 1, paragraph 3). The problems also lie in the unregulated proliferative potential of neural stem cells. Clinical evidence has shown that uncontrolled neural progenitor cells growth and differentiation in the brain of Parkinson's disease patients may result in death. In light of this, Gerlach suggests therapeutic implant of cells differentiated *in vivo* prior to transplant, but also cite the need to eliminate the possibility of uncontrolled proliferation and further suggest long-term preliminary studies in animals prior to widespread administration of such cells in human patients (e.g., p. 34, col. 2, paragraph 3).

Still further, the specific *in vivo* differentiation and *ex vivo* therapies are argued against for several reasons, essentially amounting to the fact that for any specific disorder, specific cells are destroyed, degenerated, and affected, and the transplanted or differentiated cells must differentiate into or be transplanted into the tissue in the specific amounts and ratios to replace the specific cell type(s) that have been affected. Still further, these cells must actually replace the diseased cells in terms of not only presence, but also function.

To wit, while discussing stromal cells, the issues brought up by Bartley herein are applicable to the instant case, as the progenitors must be able to differentiate in the correct proportions and replace the damaged tissue. To wit, Bartley, et al. (2003) Expert Opin. Biol. Ther., 3(4): 541-49 provides an overview for stem cell therapy for cerebral palsy (TITLE) which will suffice to delineate some of the problems with such therapies. Bartley only recognizes that two methods of administration appear to be feasible for treatment of cerebral palsy, those of intravenous or direct injection (p. 542, col. 1, paragraph 4), neither of which, as will be shown below, is yet to be reasonably predictive of delivering enough cells to the site of action. In

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stating such, Bartley also recognizes that it is not reasonably predictable that any therapy can be effected with such cells injected into the vasculature, due to the permeability of the blood-brain barrier (Id.). Hence, on top of only two methods of administration being feasible to produce therapeutic effects, Bartley also recognizes that it is not necessarily reasonably predictable that vascular administration would produce a therapeutic effect. Next, with palsy, as with many diseases of the central nervous systems, patients have differing effects with regard to amounts of grey or white matter (and specific cell types and ratios of cell types) being lost, and therefore, the type of cell used to effect such therapy must be able to reasonably predictably differentiate into each of the cell types in the correct proportions (p. 542, col. 1, paragraph 5), and, in fact, it is not even reasonably predictable which or whether both need to be replaced in any particular instance of the disorder (Id.). Therefore, even for any subset of diseases of the CNS, it is not reasonably predictable which cells to replace in the first place, much less whether marrow stromal cells can do so for each cell type and in the correct proportions. Moreover, mere replacement of certain forms of cells may not effect a disease, as in palsy, where Bartley demonstrates that it is not reasonably predictable that replacement of myelin, without replacement of the axons themselves, would facilitate any functional improvement (p. 542, col. 2, paragraph 2).

Bartley also indicates that the choice of cell type, stage of differentiation, and derivation are critical issues, indicating the specific stem cell may not be efficacious for any particular form of palsy, much less any disorder of the central nervous system (Id., paragraph 3). Further, for the cell type used in Bartley (MSCs), Bartley also provides numerous lines of evidence to indicate that marrow stromal cells can differentiate into various tissues and that such **may** be able to occur *in vivo* (p. 544, col. 1), but also there exists conflicting data (Id., paragraph 2). With

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regard to method of administration, Bartley again emphasizes that it would seem unlikely that intravenous injection would get enough cells to the site to effect treatment (p. 544, paragraph bridging columns). Further, Bartley questions the use of undifferentiated cells, and indicates that it is not reasonably predictable yet, requiring further experimentation, to determine the state of differentiation which should be applied in any particular treatment (p. 544, last paragraph). Furthermore, it is noted that even when these cell differentiate in some fashion, it is not clear whether such is the source of the therapeutic effect, or whether recovery is mediated by some other substance elaborated by the implanted cells (p. 545, col. 1, paragraph 2), and therefore, Applicant's requirement that the cells differentiate may actually not cause any therapeutic effect at all. Moreover, other results indicate that improvements in function may not be linked to the implantation of the cells themselves (Id., col. 2, paragraph 1), making the results suspect for any therapy associated with stromal cell therapy to the brain. Also, Bartley, even when a finding seems positive, indicates the need for further confirmation of the information before the data can be fully accepted (Id.).

Bartley also indicates that immune reactions may occur, which may be detrimental (Id., paragraph 2). This can further be interpreted that such immune reactions may kill any transplanted cells before they could effect therapy.

In conclusion, Bartley indicates that while the data is encouraging, extensive experimentation is still required before human treatment will be feasible (p. 545, col. 2, paragraph 2; p. 546, col. 1). Clearly, Bartley is indicating that somatic cell therapy with stromal cells is not reasonably predictable of therapy in humans at this point, which is after Applicant's filing date.

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Still further, Savitz, et al. (2003) *Journal of Cardiovascular Nursing*, 18(1): 57-61, suggests that another disorder, stroke recovery, cannot be reasonably predicted with progenitor cells, as it is not known if the cells would actually replace the damaged cells, and in the proper proportions as well as the grafts would remain viable or die, which would require “**extensive investigation**” (e.g., p. 60, paragraph bridging columns). Further, extensive investigation would be required to yield useful data to draw practical information and make it reasonably predictable (last sentence).

Still further, in the case of Parkinson’s disease, once the processes are lost that cross from the substantia nigra to the striatum, it would appear that the replacement with new processes is not reasonably predictable, even when living cells are present in the proper context, and encouraged to sprout new processes across the border (e.g., Bjorklund, et al. (2000) *Brain Res.*, 886: 82-98, article in general) and further, even with the data presently available for treatment, the models utilized are not recognized by the Artisan to be reasonably predictive of treatment (e.g., INTRODUCTION, p. 83, col. 1, first full paragraph; pp. 89-90, paragraph bridging).

Lastly, while the Art and Applicant’s specification demonstrate RNAi, antisense, dominant negative inhibitors, and antibodies, no demonstration is provided and no art is found of a small molecule or antibiotic that specifically inhibits ATF5 activity, expression, or increases its degradation specifically. Hence, the Artisan could not reasonably predict how to make such a molecule, which is specifically implied by the claims, as dependent claims claim the various ones shown, but the broad claim necessarily encompasses more, and the specification teaches small molecules and molecules that cause specific degradation (e.g., paragraph 50, et seq.).

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In essence, it is clear that any particular transplant would require the correct cells in the correct proportions to be transferred to achieve a therapeutic effect in any disorder, but the amounts and proportions are not reasonably predictable, even when the evidence appears to suggest particular proportions/amounts, as it appears to not reasonably be predictable in any case. Still further, simply differentiating into a particular type does not reasonably predict replacement of the damaged cell(s). Such replacements may not occur at all, or may occur to thwart normal cells in the damaged tissue, thereby not reasonably predicting any therapy. Still further, with damaged CNS tissue, it would not be reasonably predictable that any particular form of administration would allow the cells to reach the site of action due to the blood brain barrier, and it is further noted that other forms of administration to the peripheral nervous system are also known to be thwarted by the body's own systems, e.g., the liver would remove the cells from the blood system.

Still further, no base structures are known or reasonably predicted for the breadth of inhibitors of activity implied by Applicant's claims, such that the Artisan could reasonably predict the embodiments specifically implied for the antibiotics and small molecules that inhibit the activity of ATF5 or increase its degradation. Hence, the Artisan could not reasonably predict these molecules.

Applicant's specification and examples demonstrate the *in vitro* differentiation of neural progenitor cells, but fail to demonstrate any specific therapy, by transplant or *in vivo* administrations, and as such fails to overcome the various aspects considered non-enabled.

Hence, the Artisan would have to experiment with routes of administration for the various disorders, determine if the various administrations cause replacement of the

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damaged/affected cells in the proper proportions to treat the disease, and determine the breadth of specific inhibitors encompassed by screening compounds to determine which work. Such is considered undue as it amounts to inventing Applicant's claimed breadth for Applicant.

Hence, the claims are not enabled for that scope provided in the initial form paragraphs.

Response to Argument – Enablement

Applicant's argument of 1/9/08 has been fully considered but is not found persuasive.

Applicant argues that the finding of a failure to disclose effective dosages is misplaced, as various partial successes for Parkinson's disease are known in animal models, as well as an aversion that human transplants have also met with success (pp. 9-10).

Such is not persuasive. While the present Examiner does not have a problem with effective dosages, as is shown above, for the breadth of diseases disclosed as treatable, and for any particular patient, it is not reasonably predictable that the cells will differentiate into the particular types and proportions of cells required. To emphasize, the cited reference in Pluchino utilizes SDIA-induced dopaminergic neurons, while Applicant has not even shown or made reasonably predictable that the methods would produce an SDIA dopaminergic neuron, but instead only a cell that contains processes indicative a generic neuron. Still further, it is well known that the loss of the processes of the neurons across the substantia nigra border with the striatum is known to be irreconcilable once lost, and hence, it is not reasonably predictable that such cells, if transplanted will actually send processes across the border which then become functional, thereby replacing the damaged cells. E.g., Bjorklund, above.

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Applicant argues that the present claims are enabled, as there is a wealth of information regarding the use of such cells in therapy, and hence, the experimentation is merely one of optimization, which is routine in the Art (p. 10, paragraph 2).

Such is not persuasive. As is shown above, therapies encompassed are not reasonably predictable for success, for the reasons given. The Artisan is simply not able to reasonably predict therapy of any particular disorder with the methods, and would have to perform experimentation to reasonably predict a therapy in any particular case, and such is therefore undue, regardless of the averred "wealth" of information of such therapies.

Applicant avers enablement (p. 10, last paragraph).

Such is not persuasive. Attorney argument does not supplant the need to demonstrate the claims are reasonably predictable.

Applicant argues their demonstration of *in vitro* differentiation enables the *in vivo* differentiation, and hence, the claims are enabled for such (pp. 11-12, paragraph bridging).

Such is not persuasive. *In vivo* methods are required to be enabled for therapy, and further, suffer from the problems of the milieu of other factors in the body, and hence, the required differentiation is not reasonably predictable in any particular setting to produce the proper cell types and amounts to produce any reasonably predictable therapy.

Claim Rejections - 35 USC § 102 - anticipation

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 7, 12, 14, 16, and 18 remain rejected under 35 U.S.C. 102(b) as being anticipated by Angelastro, et al., (2000) Proceedings of the National of Academy of Science, USA, 276(15): 12190-121200 for reasons of record.

Applicant argues that the relevant definition in the specification is in paragraph 0145 wherein it is said that the "The ATF5 specific agent may be any agent reactive ATF5 protein or nucleic acid" (p. 13).

Such is not persuasive. The specific agent of the quoted paragraph appears to be limited to kits for assays for neural tumors. Moreover, the cited paragraph reference is open-ended, as it "may be" these things, which necessarily implies that it may be other things. Still further, the specification specifically defines the agents to be much more, including indirect and direct inactivating, interfering with, or downregulating CRE-binding of ATF5 (paragraph 0050), and may be, specifically, NGF (paragraph 0053). Arguing conflicting "definitions" is not a productive manner in which to proceed, and is actually not considered persuasive in the courts. Hence, Applicant's argument is no longer addressed.

Conclusion

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT M. KELLY whose telephone number is (571)272-0729. The examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert M Kelly/
Acting Examiner of Art Unit 1633